



Environmental Protection Division
Ecology and Air Quality Group
P.O. Box 1663, MS J978
Los Alamos, New Mexico 87545
(505) 665-8855/FAX: (505) 665-8858

Date: January 22, 2008
Refer to: ENV-EAQ:08-020

Ms. Debra McElroy
Manager, Compliance and Enforcement Program
New Mexico Environment Department
Air Quality Bureau
1301 Siler Road, Building B
Santa Fe, New Mexico 87507

**IDEA ID 856 – LOS ALAMOS NATIONAL LABORATORY
2007 FOURTH QUARTER BERYLLIUM EMISSIONS REPORT
OCTOBER 1– DECEMBER 31, 2007
AIR QUALITY PERMIT NO. 634-M2**

Dear Ms. McElroy:

Attached as Enclosure 1 you will find a copy of the sampling data obtained from the continuous air monitor installed on the main exhaust stack at the Beryllium Technology Facility (BTF) at Los Alamos National Laboratory (LANL) for the **fourth quarter of calendar year 2007**. This submission of the quarterly emissions data, collected from this source, is required by permit condition 5.f of NMED Air Quality Permit #634-M2 dated October 30, 1998. Furthermore, this quarterly report is transmitted within the allowed 60 days after the end of the calendar quarter, as specified in the permit.

As specified in permit #634-M2, the beryllium stack emissions from the BTF shall not exceed 0.35 grams in a 24-hour time period and shall not exceed 3.5 grams per year. As can be seen on the attached data sheet, the highest daily emission rate (HDER) during the fourth quarter of calendar year 2007 was $< 2.01 \times 10^{-5}$ grams per 24 hours, which is well below the daily permit limit. The total amount of beryllium emitted for the fourth quarter of calendar year 2007 was $< 1.45 \times 10^{-3}$ grams. Additionally, the total for the first four quarters of calendar year 2007 was $< 6.31 \times 10^{-3}$ grams, which is well below the 3.5 gram per year limit specified in the permit. Also, on the attached data sheet, you will note that the last data point for calendar year 2007 is December 20, 2007. This is due to the laboratory closure over the holidays during which time the facility did not process material. Stack samples are not collected during this time and are allowed to remain in the sample collector for two weeks. This two-week sample will be reported as part of the first quarter 2008 emission report for this facility. Based on the attached information, LANL is in compliance with condition #2 of NMED Air Quality Permit #634-M2.

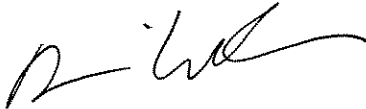
Ms. Debra McElroy
ENV-EAQ:08-020
LA-UR:08-0444

-2-

January 22, 2008

If you have any questions or comments regarding this submittal or would like to discuss this in greater detail, please feel free to contact Steve Story at 665-2169 or Kathleen Gorman-Bates at 665-1338.

Sincerely,



Dianne Wilburn
Ecology & Air Quality Group

KGB/DW:alb

Enc: a/s

Cy:

Jan Van Prooyen, DIR, A100
Michael Mallory, PADOPS, A102
Richard Watkins, ADESH&Q, K491
IRM-RMSS0, A150
ESH&Q File, K491
S. Fong, DOE-LA-SO, A316
V. George, ENV-DO, J978
P. Dunn, MST-6, G770
S. Abeln, MST-6, G770
P. Wardwell, LC-ESH, A187
M. Gallegos, ENV-RCRA, E509
S. Story, ENV-EAQ, J978
M. Stockton, ENV-EAQ, J978
K. Gorman-Bates, ENV-EAQ, J978
ENV-EAQ Beryllium Permit #634 Quarterly Report File
ENV-EAQ File

LA-UR-08-0444

Approved for public release;
distribution is unlimited.

Title: 2007 Fourth Quarter Beryllium Emissions Report
October 1 - December 31, 2007
Air Quality Permit No. 634-M2
Los Alamos National Laboratory

Author(s): Kathleen Gorman-Bates, ENV-EAQ

Intended for: Ms. Debra McElroy
Manager Compliance and Enforcement Program
New Mexico Environment Department
Air Quality Bureau
1301 Siler Road; Building B
Santa Fe, New Mexico 87507



Los Alamos National Laboratory, an affirmative action/equal opportunity employer, is operated by the Los Alamos National Security, LLC for the National Nuclear Security Administration of the U.S. Department of Energy under contract DE-AC52-06NA25396. By acceptance of this article, the publisher recognizes that the U.S. Government retains a nonexclusive, royalty-free license to publish or reproduce the published form of this contribution, or to allow others to do so, for U.S. Government purposes. Los Alamos National Laboratory requests that the publisher identify this article as work performed under the auspices of the U.S. Department of Energy. Los Alamos National Laboratory strongly supports academic freedom and a researcher's right to publish; as an institution, however, the Laboratory does not endorse the viewpoint of a publication or guarantee its technical correctness.

Enclosure 1

Beryllium 2007 Stack Emissions

TA-03-0141

TA-3-141 StackID: 3014101

Sampling dates

		Emissions (g)		Comments
		Weekly(1)	Daily(2)	
Period #: 1		Sum of weekly results must be <3.5 g/year		Cannot Exceed 0.35 g/day
12/21/2006	-			
01/04/2007	-	01/04/2007		
01/11/2007	-	01/11/2007		
01/18/2007	-	01/18/2007		
01/25/2007	-	01/25/2007		
02/01/2007	-	02/01/2007		
Period #: 2				
02/01/2007	-			
02/08/2007	-	02/08/2007		
02/15/2007	-	02/15/2007		
02/22/2007	-	02/22/2007		
03/01/2007	-	03/01/2007		
Period #: 3				
03/01/2007	-			
03/08/2007	-	03/08/2007		
03/15/2007	-	03/15/2007		
03/22/2007	-	03/22/2007		
03/29/2007	-	03/29/2007		

1st Quarter Total:	<	1.64E-03	HDER	2.31E-05
--------------------	---	----------	------	----------

*HDER = Highest Daily Emission Rate

01/11/2008

Beryllium 2007 Stack Emissions
TA-03-0141

TA-3-141 StackID: 3014101

Sampling dates

		Emissions (g)		Comments
		Weekly(1)	Daily(2)	
		Sum of weekly results must be <3.5 g/year		Cannot Exceed 0.35 g/day
Period #: 4				
03/29/2007	04/05/2007	< 1.21E-04	< 1.73E-05	
04/05/2007	04/12/2007	< 1.21E-04	< 1.74E-05	
04/12/2007	04/19/2007	< 1.21E-04	< 1.73E-05	
04/19/2007	04/26/2007	< 1.21E-04	< 1.73E-05	
Period 4 Sum: < 4.84E-04				
Period #: 5				
04/26/2007	05/03/2007	< 1.21E-04	< 1.73E-05	
05/03/2007	05/10/2007	< 1.21E-04	< 1.73E-05	
05/10/2007	05/17/2007	< 1.21E-04	< 1.72E-05	
05/17/2007	05/24/2007	< 1.21E-04	< 1.74E-05	
05/24/2007	05/31/2007	< 1.21E-04	< 1.73E-05	
Period 5 Sum: < 6.05E-04				
Period #: 6				
05/31/2007	06/07/2007	< 1.21E-04	< 1.73E-05	
06/07/2007	06/14/2007	< 1.21E-04	< 1.73E-05	
06/14/2007	06/21/2007	< 1.21E-04	< 1.73E-05	
06/21/2007	06/28/2007	< 1.21E-04	< 1.73E-05	
Period 6 Sum: < 4.84E-04				
2nd Quarter Total: < 1.57E-03		HDER	< 1.74E-05	

^a HDER = Highest Daily Emission Rate

01/11/2008

Beryllium 2007 Stack Emissions
TA-03-0141

TA-3-141 StackID: 3014101

Sampling dates

		Emissions (g)		Comments
		Weekly(1)	Daily(2)	
		Sum of weekly results must be <3.5 g/year		Cannot Exceed 0.35 g/day
Period #:	7			
06/28/2007	-			
07/05/2007	-	07/05/2007		
07/12/2007	-	07/12/2007		
07/19/2007	-	07/19/2007		
07/26/2007	-	07/26/2007		
07/26/2007	-	08/02/2007		
Period #:	8			
08/02/2007	-	08/09/2007		
08/09/2007	-	08/16/2007		
08/16/2007	-	08/23/2007		
08/23/2007	-	08/30/2007		
Period #:	9			
08/30/2007	-	09/06/2007		
09/06/2007	-	09/13/2007		
09/13/2007	-	09/20/2007		
09/20/2007	-	09/27/2007		
		Period 7 Sum:	6.05E-04	
		Period 8 Sum:	5.52E-04	
		Period 9 Sum:	4.84E-04	
		3rd Quarter Total:	1.64E-03	HDER 2.69E-05

^aHDER = Highest Daily Emission Rate

01/22/2008

Beryllium 2007 Stack Emissions
TA-03-0141

TA-3-141 StackID: 3014101

Sampling dates

Emissions (g)		Comments
Weekly(1)	Daily(2)	

Sum of weekly results must be <3.5 g/year
Cannot Exceed 0.35 g/day

Period #:	10
09/27/2007	10/04/2007
10/04/2007	10/11/2007
10/11/2007	10/18/2007
10/18/2007	10/25/2007
10/25/2007	11/01/2007

Period #:	11
11/01/2007	11/08/2007
11/08/2007	11/15/2007

11/15/2007	11/21/2007
11/21/2007	11/29/2007

Period #:	12
11/29/2007	12/06/2007
12/06/2007	12/13/2007
12/13/2007	12/20/2007

<	1.21E-04	<	1.73E-05
<	1.21E-04	<	1.73E-05
<	1.21E-04	<	1.73E-05
<	1.21E-04	<	1.73E-05
<	1.21E-04	<	1.69E-05

Period 10 Sum: < 6.05E-04

<	1.21E-04	<	1.78E-05
<	1.21E-04	<	1.73E-05

Run time due to Thanksgiving holiday.

<	1.21E-04	<	2.01E-05
<	1.21E-04	<	1.52E-05

Period 11 Sum: < 4.84E-04

<	1.21E-04	<	1.73E-05
<	1.21E-04	<	1.73E-05
<	1.21E-04	<	1.73E-05

Period 12 Sum: < 3.63E-04

4th Quarter Total: < 1.45E-03 HDER < 2.01E-05

Sum of four quarters: < 6.31E-03

11/6/08
V. J. [Signature]

^a HDER = Highest Daily Emission Rate